



PROFESSIONAL SERVICE INDUSTRIES, INC.

SITE SAFETY AND HEALTH PLAN

Site:	Maline Creek
ID #:	MOD980631162
Break:	2.4
Other:	12-14-92

MALINE CREEK ASBESTOS ABATEMENT PROJECT

600 ST. CYR ROAD

ST. LOUIS, MO

Prepared for

Environmental Protection Agency
Region VII

Project Number 60829051

December 14, 1992

Prepared by: Kirby Demott

4820 West 15th Street, Lawrence, Kansas 66049
(913) 749-2381

Fax

913-865-9534

DTKF	30290499	2.0
Superfund		
0400		

CONTENTS

A.	GENERAL INFORMATION.....	1
B.	SITE/WASTE CHARACTERISTICS.....	2
C.	HAZARD EVALUATION	4
D.	SITE SAFETY WORK PLAN	5
E.	EMERGENCY INFORMATION.....	8
F.	EQUIPMENT.....	9

A. GENERAL INFORMATION

Project Manager: Kirby Demott
Project Director: Steve Hughes

Project Title: Maline Creek Asbestos Abatement Project
Project Number: 80829051
Project Location: Former Certain-Teed Plant, 600 St. Cyr Road, St. Louis, MO

Prepared by: Kirby Demott

Approved by: 

Scope/Objective of Work:

Drill ten holes, in various locations on the project site, in order to determine soil classifications and northwest boundary of asbestos landfill.

Proposed Date of Field Activities:
December 17, 1992

Background Information:

Complete: A site assessment dated May 8, 1992 confirmed the existence of asbestos debris throughout much of the project site.

Preliminary: The extent of the buried asbestos is unknown.

Analytical Data Available: The asbestos content of the debris ranges from 7 to 25% crocidolite and/or chrysotile.

Documentation/Summary: See site assessment.

Overall Chemical Hazard:

Serious

Moderate

Low

Unknown

Overall Physical Hazard:

Serious

Moderate

Low

Unknown

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

B. SITE/WASTE CHARACTERISTICS

Waste Type(s):

Liquid
Solid
Sludge
Gas/Vapor

Characteristics:

Flammable
Volatile
Corrosive
Acutely Ignitable
Toxic
Explosive
Reactive
Carcinogenic
Radioactive
Other: _____

Physical Hazards:

Overhead Wires
Confined Space
Below
Trip/Fall
Puncture
Burn
Cut
Splash
Noise
Asbestos
Other: Drilling Rig

Site History:

Project site was the previous location of a manufacturing plant which produced cement asbestos products including pipe and corrugated board. Adjacent property to the south of the plant was used as a disposal site for waste materials.

Site Description:

Areas Affected: Drilling is to be performed on the east side of Maline Creek near the northern edge of the parking lot at the former Certain-Teed plant.

Surrounding Population: Residential homes existing on the west side of Maline Creek, approximately 200 feet from the creek bank.

C. HAZARD EVALUATION

Physical Hazard Evaluation:

Asbestos hazard

Cold Stress

Drilling rig

Symptoms:

Inhalation while not wearing
respirator

Discoloration of exposed skin,
shivering, numbness

Physical harm; cuts, abrasions,
burns

Chemical Hazard Evaluation: None

Potential for Asbestos Exposure:

☒ Yes

☐ No

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

D. SITE SAFETY WORK PLAN

Site Control: The project location is in an industrial type setting. The site safety officer will be responsible for not allowing personnel without proper protective equipment in the area of the drilling.

Anticipated Level of Protection:

Level A

Level B

Level C

Level D

Modifications:

Clothing - Disposable protective tyvek suits.

Goggles -

Wash -

Change -

Remove -

Respirators - Half-face dual cartridge

Anticipated Level of Protection for Evaluation of Health Team Based on Assessment of Conditions:

Level D

Level C

Level B

Level A

Site Monitoring Approach (daily calibration unless otherwise noted): Personal air monitoring of workers, utilizing low volume air pumps, will be performed during drilling operations.

Decontamination Solutions and Procedures for Equipment, Sampling Gear, Etc.: Drilling equipment including bits, augers, sampling spoons, etc., will be decontaminated on site with amended water.

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

Topography: The area where drilling is to be performed is relatively flat. Some of the holes may be drilled through the parking lot which exists between the east bank of Maline Creek and the former Certain-Teed plant.

Weather Conditions: Winter conditions expected.

Additional Information/Unusual Features: Drilling will be performed on the site of a former asbestos landfill. Asbestos debris is exposed along the creek bank. It is anticipated that some of the holes drilled will encounter asbestos materials.

Locations of Chemicals/Wastes: Asbestos-containing waste materials are located throughout the site. No chemical wastes are anticipated.

Estimated Volume of Chemicals/Wastes: The extent of asbestos-containing waste materials is known to encompass at least a seven acre site.

DEC-15-'92 TUE 08:58 ID: LAWRENCE: HARRISON TEL NO: 913-865-9544

#385 P02

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

Team Members:

Project Team Leader/ Site Safety Officer
Construction Manager
Project Team Members



The initials and signatures noted above indicate that the person has received a written copy of and an oral briefing of this Site Safety Plan and agrees to act in a professional manner in accordance with the Site Safety Plan.

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

Special Site Equipment, Facilities, or Procedures (Sanitary Facilities and Lighting):
Drilling will be performed between dawn and dusk.

Site Entry Procedures and Special Considerations: None

Work Limitations (time of day, weather conditions, etc.) and Heat/Cold Stress Requirements: Drilling will only be performed from dawn to dusk. Workers shall wear clothing, underneath PPE and on hands and feet, appropriate for outdoor winter weather conditions.

General Spill Control: Waste water from decontamination procedures will be disposed of on site.

Investigation-Derived Material Disposal (i.e., expendables, decontamination waste, cuttings, asbestos debris): All soil and/or asbestos debris removed during drilling activities are to be put back into the excavated holes.

Sample Handling Procedures Including Protective Wear: Soil and/or asbestos samples taken during drilling activities will be placed in sealed, labeled containers for transport. Personnel collecting samples will be in Level C protective equipment.

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD**E. EMERGENCY INFORMATION****Emergency Responders:**

911 Ambulance
911 Police
911 Fire Department
355-2300 Hospital Emergency Room

Directions to Hospital:

Exit project work site going west on St. Cyr road to Bellefontaine Road. Go North on Bellefontaine Road approximately one mile to Interstate 270. Go West on 270 approximately two and one half mile to the Graham Road exit. Christian Hospital Northeast is located on the Northwest corner at the intersection of I270 and Graham Road. Address: Christian Hospital Northeast, 11133 Dunn Road

Client Contact:

Don Hamera
Environmental Protection Agency
Region VII Laboratory
25 Funston Road
Kansas City, KS 66115
913/551-6028

Professional Service Industries, Inc.
4820 W. 15th Street
Lawrence, KS 66049
913/865-9534

Site Contact:

Kirby Demott

Notified Parties:

EPA
Missouri Dept. of Natural Resources
One call (Western Union, S.W. Bell, Mercantile S.C. Gas) #3490809

CHEMTREC:

1-800-424-9300

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

F. EQUIPMENT**PERSONAL PROTECTIVE EQUIPMENT:**

- SCBA
- spare air tanks
- encapsulating suit
- protective coverall (type: Tyvek)
- rain suit
- neoprene safety boots
- butyl apron
- surgical gloves
- gloves
- outer work gloves
- hard hat
- cascade system
- booties
- cooling vest
- safety boots
- manifold system
- air-purifying respirator
- cartridges (type: HEPA)
- 5-minute escape mask
- safety glasses

INSTRUMENTATION:

- HNu or OVM /Datalogger
- O2/Explosimeter with calibration kit
- Magnetometer/pipe locator
- Dräger pump, tubes (benzene)
- Brunton compass
- documentation forms
- pocket dosimeter
- low volume air pumps and 25mm cassettes

FIRST AID EQUIPMENT:

- first aid kit
- stretcher
- portable eye wash
- blood pressure monitor
- fire extinguisher

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

MISCELLANEOUS:

- nylon rope
- nylon string
- surveying flags
- camera
- film
- step ladders
- wheelbarrow
- bung wrench
- soil auger
- hammer
- pick
- flashlight
- shovel
- weather radio
- binoculars
- megaphone
- sorbant pads
- 55-gallon drums
- jars
- body bags

DECONTAMINATION EQUIPMENT:

- wash tubs
- buckets
- scrub brushes
- pressurized sprayer
- detergent
- solvent
- plastic sheeting
- tarps and poles
- trash bags
- trash cans
- masking tape
- duct tape
- paper towels
- distilled water

SAFETY AND HEALTH PLAN FOR 600 ST. CYR ROAD

SAMPLING EQUIPMENT:

- 8-ounce bottles
- half-gallon bottles
- VOA bottles (X2)
- string
- hand bailers
- thieving rods with bulbs
- spoons
- knives
- filter paper
- personal sampling pump supplies
- asbestos bulk sample bottles
- asbestos sampling knife

SHIPPING EQUIPMENT:

- coolers
- paint cans with lids
- vermiculite
- shipping labels
- dot labels
- strapping tape
- bottle labels
- baggies
- custody seal
- chain-of-custody forms
- Federal Express forms
- clear packing tape